



大阪医学統計学セミナー 第31回

Osaka Biostatistics Seminar

5月28日 (金)
17:30~19:30



場所 :
医学系研究科基礎研究棟L階
医学統計学研究室
オンライン同時開催

参加ご希望の方は、前日までに下記問い合わせ先にメールにてお申込みください。

「A likelihood-based sensitivity analysis for publication bias on the summary ROC in meta-analysis of diagnostic test accuracy」

講演者 : Yi Zhou (大阪大学医学統計学教室)

概要 :

In meta-analysis of diagnostic test accuracy, the summary receiver operating characteristic (SROC) is a very useful method to depict pairs of sensitivity and specificity in the presence of heterogenous cutoff values, with the area under the SROC (SAUC) giving the aggregate measures of test accuracy. SROC or SAUC can be estimated by the bivariate normal model. However, publication bias is a major threat to the validity of SROC or SAUC estimates in the meta-analysis. In this study, we propose a sensitivity analysis model to evaluate the impact of publication bias on SROC or SAUC. By modeling the publication process using a t-type statistic of the linear combination of the logit-transformed sensitivity and specificity, we derive a conditional likelihood given the selection probability. The proposed sensitivity analysis takes the study-specific cutoff values into account and provides an approach to speculating different weights of sensitivity or specificity in the publication process.

お問い合わせ : 大阪大学大学院医学系研究科 医学統計学講座

E-Mail : office@biostat.med.osaka-u.ac.jp TEL : 06-6879-3301